WDRV-7464M
WDRV-8464M

WDRV-7444M / WDRV-7464M / WDRV-7474M

WDRV-8444M / WDRV-8464M

[TFT LCD COLOR MONITOR]

Owner's Manual

WELDEX

Please read carefully before using and keep in a safe place.
Design and specifications are subject to change without notice.

V.06E

Owner's Record

The model and serial numbers are located at the rear.
Record the serial number in the space provided below.
Refer to these numbers whenever you call your dealer regarding this product.

MODEL:
☐ **WDRV-7444M** ☐ **WDRV-7464M** ☐ **WDRV-7474M**
☐ **WDRV-8444M** ☐ **WDRV-8464M**

Serial Number: _____

Warnings

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

To reduce the risk of electric shock do not remove cover (or back).
NO user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of "dangerous voltage" within a product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Table of Contents

Before operating the set, please read this manual carefully

Features

- **WDRV-7464M/8464M is specifically designed as an automotive all round vision system.**
  - Wide 7" / 8" TFT LCD Panel
  - Free Input Voltage (DC 12V~DC 32V)
  - NTSC/PAL Compatibility
  - 4 Camera Inputs & Audio/Video Input & Audio/Video Output
  - Multiple Display Mode (Single, Half, Quad)
  - Automatic Picture Display (5 Triggering Functions)
  - Auto Scanning Function
  - Dimmer Fuction
  - Built-in Speaker
  - OSD (On Screen Display)

Precautions

- **Warning**

  To prevent fire of shock hazard, do not expose the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

- **Regulatory Information**

  This equipment has been tested is in compliance with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try or correct the interference by one or more of the following measures.

- **Do not remove the cover**
  To reduce the risk of electric shock and maintain the quality of the product, please do not remove the cover.
  Please follow the instructions of the wiring diagram in the Installation Guide.

- **Keep small articles out of the reach of children**
  Store small articles (screws, etc.) in places not accessible to children.
  If swallowed, consult physician immediately.

- **Stop using immediately if a problem appears**
  When problems appear, stop using the system immediately and contact the dealer from whom you purchased the equipment. Some problems which may warrant immediate attention include a lack of sound, noxious smoke being emitted from the unit, or foreign objects dropped inside the unit.

- **Do not use this equipment outside the vehicle**
  Do not use this equipment for purposes other than those listed for the vehicle.
  Failure to do so may result in an electric shock or an injury.

- **Stop the vehicle before carrying out any operation that could interfere with your driving**
  If the operation of the unit (such as turning on or turning off the monitor, etc.)
  interferes with your driving, stop the vehicle in a safe location before attempting operation.

- **Temperature**
  Before turning your unit on, be sure the temperature inside the vehicle is between -20℃ and +80℃.

- **Maintenance**
  If you have problems, do not attempt to repair the unit by yourself. Return it to your purchasing dealer.

● **Caution**

Do not attempt to modify this product in any way without written authorization. Unauthorized modification could void the user's authority to operate this product.

● **Power**

This set operates on DC power. The voltage is as indicated on the label on the back cover. Never apply AC power to the set directly. Do not allow anything to rest upon or roll over the power cord, and do not place the set where the power cord is subject to damage.

● **Service**

Never remove the back cover of the monitor, this can expose you to high voltage and other hazards. If the monitor does not operate properly, unplug it and call your dealer.

● **Location**

Position your monitor so that no bright light or sunlight will shine directly on the screen. Make sure that the monitor is placed in a position that allows a free flow of air. Do not cover the ventilation openings on the back cover.
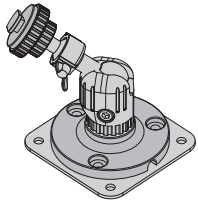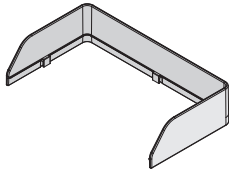
● **Cleaning**

Unplug the monitor before cleaning the face of the LCD Screen. Dust the monitor by wiping the screen and cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean damp cloth. Do not use liquid or aerosol cleaners.
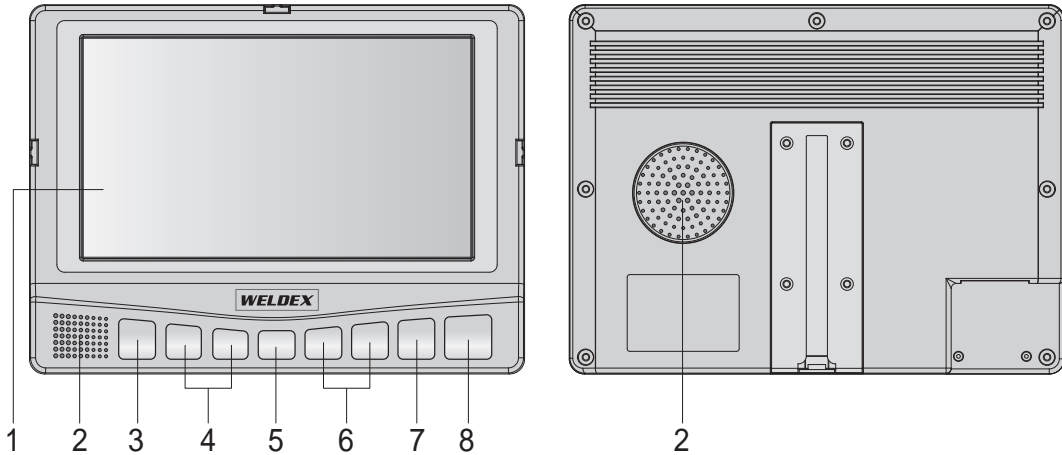
Packing List

Set [TFT-LCD Monitor]

 Stand Bracket	 Remote Controller (Option)	 Sunshield
 Manual	 2 Batteries (Type AAA) for Remote Controller (Option)	

Functions

MONITOR

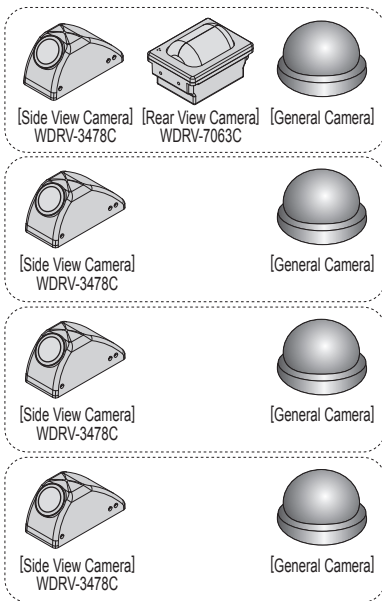| NO	MENU	DESCRIPTION
1	LCD	Video on the screen.
2	SPEAKER	Sound out 1W X 2 Max.
3	IR	Remote control sensor. (Remote control is optional)
4	UP/DOWN ▲,▼	Use select items in the on screen menu, press UP/DOWN buttons to control front / rear view motorized camera only.
5	SELECT	Press select button to change video source and view mode. If button is beld down over 1 second the setting will be changed to the auto scan mode.
6	VOL ◀,▶	Press to increase or decrease the volume and menu control Volume adjust is available only when user inputs the trigger.
7	MENU	Displays main menu on screen.
8	POWER/DIMMER	Press button to control dimmer. By pressing button over 1 second will turn monitor on/off.

REMOTE CONTROL (Option)
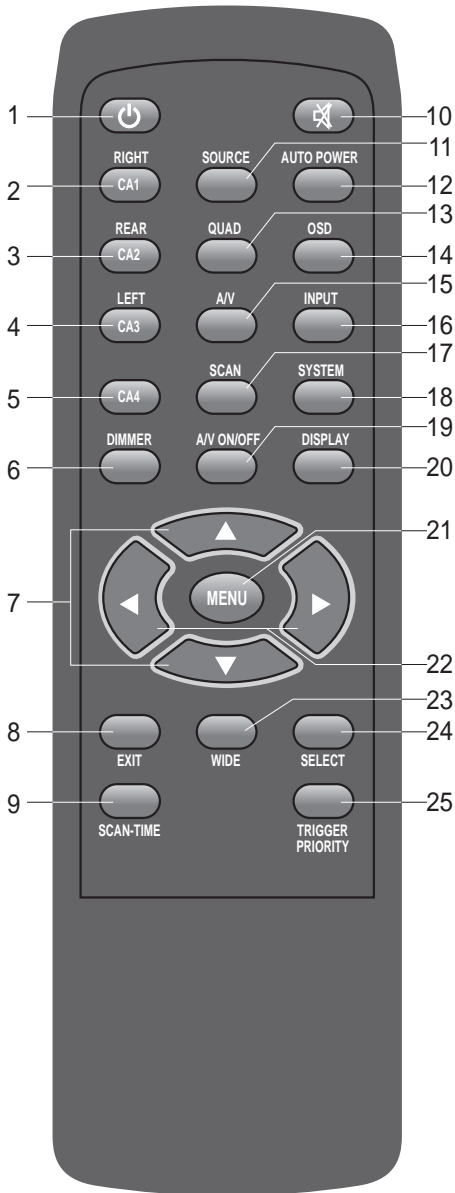
No.	Button	Description
1	POWER	On/off power of LCD monitor
2	CA1	Change camera1 video
3	CA2	Change camera2 video
4	CA3	Change camera3 video
5	CA4	Change camera4 video
6	DIMMER	Dimmer control button
7	UP/DOWN ▲▼	Use select items in the on screen menu, press UP/DOWN buttons to control rear view motorized camera only
8	EXIT	Turn menu off
9	SCAN TIME	Scanning function up to 9 seconds for selected camera.
10	MUTE	Mutes sound
11	SOURCE	Press to display only full screen mode available
12	AUTO POWER	The power of LCD stays on/off
13	QUAD	Press to display half screen mode and quad screen mode.
14	OSD	Sets operating OSD display
15	A/V	Change A/V video
16	INPUT	Trigger in auto / normal function select
17	SCAN	Shows INPUT signal automatically
18	SYSTEM	None
19	A/V ON/OFF	Audio/Video ON/OFF
20	DISPLAY	Preset display mode
21	MENU	Displays menu options on screen
22	VOL ◀ ▶	Adjusting the volume is available only when trigger input is done
23	WIDE	Picture ratio control (Wide/Normal)
24	SELECT	Press to display all available video source
25	TRIGGER PRIORITY	Sets priority video source when more than two trigger signals enter at the same time

System Wiring

[WDRV-7444M / 7464M
[WDRV-8444M / 8464M
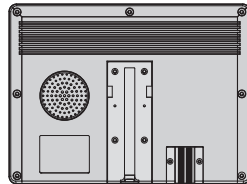
	Camera1	Camera2	Camera3	Camera4
WDRV-7464M/8464M	6Pin	6Pin	4Pin	4Pin
WDRV-7444M/8444M	4Pin	4Pin	4Pin	4Pin

[Side View Camera] WDRV-3478C [Rear View Camera] WDRV-7063C [General Camera]

FEMALE MALE 6PIN

[Side View Camera] WDRV-3478C [General Camera]

FEMALE MALE 6PIN

[Side View Camera] WDRV-3478C [General Camera]

FEMALE MALE 4PIN

[Side View Camera] WDRV-3478C [General Camera]

FEMALE MALE 4PIN

DC12V~32V
GND

Trigger1 Signal Input
Trigger2 Signal Input
Trigger3 Signal Input
Trigger4 Signal Input
Trigger5 Signal Input

Video Out
Audio Out
Audio/ Video IN

General Camera

- WDRV-7057C (-HD)
- WDRV-7925C
- WDRV-5437CN

WDRV-3478C Pin Connection
[SIDE VIEW CAMERA]

HOLE
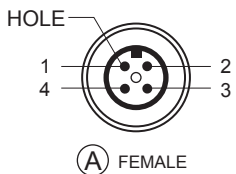
Pin No.	Description
1	GND
2	AUDIO
3	VIDEO
4	DC +12V

Ⓐ FEMALE

WDRV-7063C Pin Connection
[REAR VIEW MOTORIZED CAMERA]

HOLE
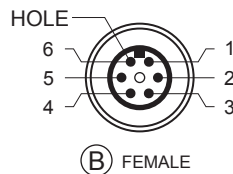
| Pin No.	Description
1	VIDEO
2	DC +12V
3	MORTOR +
4	AUDIO
5	MORTOR -
6	GND

Ⓑ FEMALE

Installation

• Install the monitor on a surface which can width stand more weight than 5Kg (11 lbs)
  - Clean the surface before installation
  - Remove the protective paper covering the bottom of the bracket
  - Stick the provided bracket on the surface and fix it firmly with the screws.
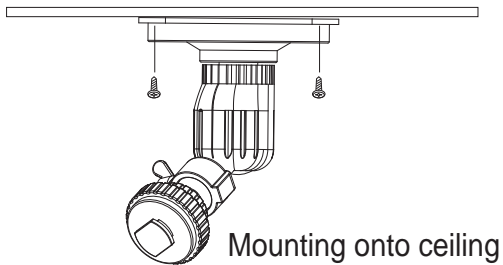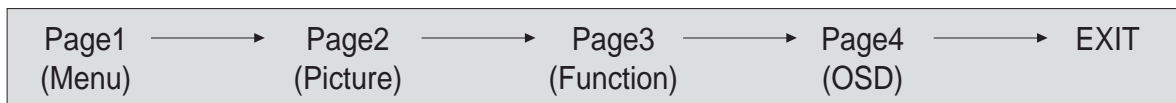
Mounting on the floor, console, etc.

Mounting onto ceiling
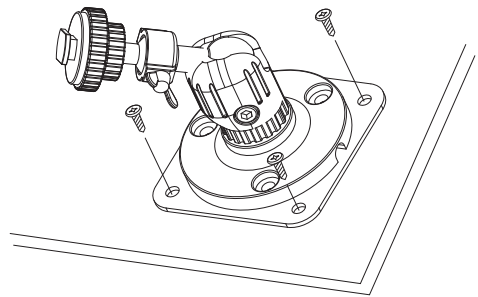
- Adjust the angle of the monitor and fasten the handle screws tightly.
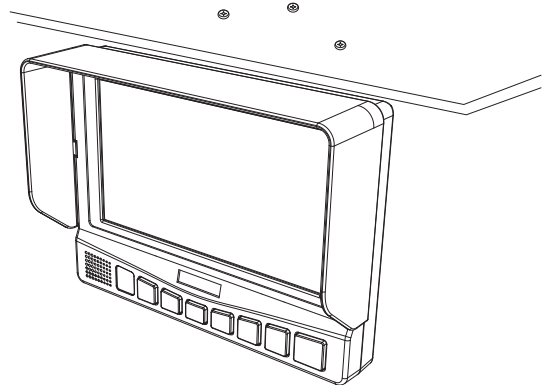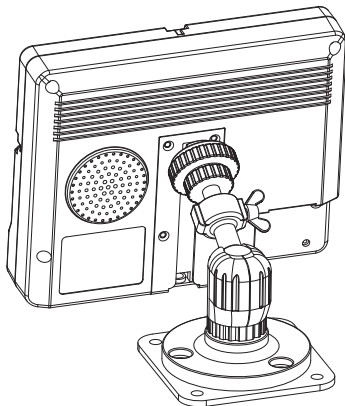
Operation

● MENU │MENU│
 - Press to enter setup menu
 - Selectable OSD menu disappears within 5 seconds if there is no command given.
 - Menu Toggle

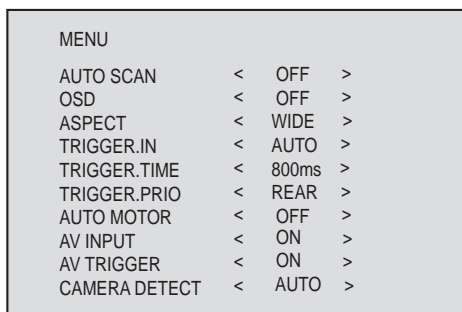| Page1 (Menu)	→	Page2 (Picture)	→	Page3 (Function)	→	Page4 (OSD)	→	EXIT

 - Use │▼│ │▲│ │◄│ │►│ buttons to navigate menu, │SELECT│ adjust menu settings.

 * Different OSD depends on the Model.

A. Press 'MENU' button on set.
   The following will appear on the screen.

```
MENU

AUTO SCAN       <   OFF   >
OSD             <   OFF   >
ASPECT          <   WIDE  >
TRIGGER.IN      <   AUTO  >
TRIGGER.TIME    <   800ms >
TRIGGER.PRIO    <   REAR  >
AUTO MOTOR      <   OFF   >
AV INPUT        <   ON    >
AV TRIGGER      <   ON    >
CAMERA DETECT   <   AUTO  >
```
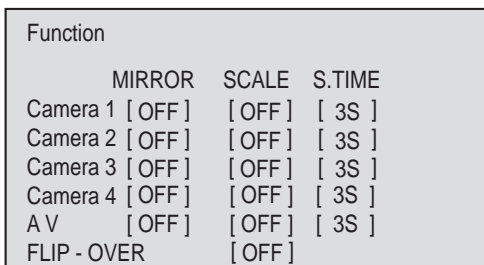
• AUTO SCAN : Shows INPUT signal automatically(CAM1, CAM2, CAM3, CAM4, Half, Quad)
• OSD : [OFF] - OSD appears up to 5 sec when camera is toggled
• ASPECT : Picture ratio control. (Wide - 16:9 / Normal - 4:3)
• TRIGGER.IN : [Auto] - Rear & Side view cameras automatically selected (input on mode)
              [Manual] - Rear & Side view cameras manually selected (input on mode)
• TRIGGER TIME : 800ms/1200ms/2000ms/2500ms/3000ms (1200ms Default)
• TRIGGER PRIO : Set the priority video source when more than two trigger signals enter at the same time.
• AUTO MOTOR : Pull down time passed by 30sec after operating (ON)
                Motorized camera UP/ DOWN
• AV INPUT : [ON] - Available to select AV INPUT signal by select button.
             [OFF]-Not Available to select AV INPUT signal
• AV TRIGGER : [ON] -Automatically select by TRIGGER signal
               [OFF] -Out of select by TRIGGER signal
• CAMERA DETECT : AUTO / CH1 / CH2 / CH3 or CH4

B. Press 'MENU' button twice times on set.
   The following will appear on the screen.

Picture		
Brightness	▬▬▬▬▭▭▭▭	50
Contrast	▬▬▬▭▭▭▭▭	39
Tint	▬▬▬▭▭▭▭▭	50
Color	▬▬▬▭▭▭▭▭	50
Sharpness	▬▭▭▭▭▭▭▭	11
Color Tone	< Normal >	
Auto Power	< ON >	
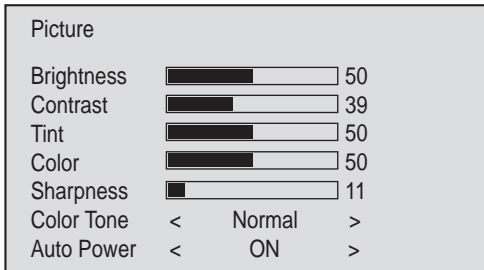
- • BRIGHT : Adjust the brightness of the screen
- • CONTRAST : Adjust the contrast of the screen
- • TINT : Adjust the tint of the screen
- • COLOR : Adjust the color of the screen
- • SHARPNESS : Adjust the sharpness of the screen
- • COLOR TONE : Normal / Warm / Cool (Normal Default)
- • AUTO POWER : ON / OFF power of LCD monitor automatically

C. Press 'MENU' button three times on set.
   The following will appear on the screen.

Function			
	MIRROR	SCALE	S.TIME
Camera 1	[OFF]	[OFF]	[3S]
Camera 2	[OFF]	[OFF]	[3S]
Camera 3	[OFF]	[OFF]	[3S]
Camera 4	[OFF]	[OFF]	[3S]
A V	[OFF]	[OFF]	[3S]
FLIP - OVER		[OFF]	

- • MIRROR : Set mirror option for each video source
- • SCALE : Ability to set scale for each video source
- • SCAN-TIME : Ability to set the delaytime for scanning from 0 to 9 seconds
- • FLIP-OVER : [ON] - Screen flips over

D. Press 'MENU' button four times on set.
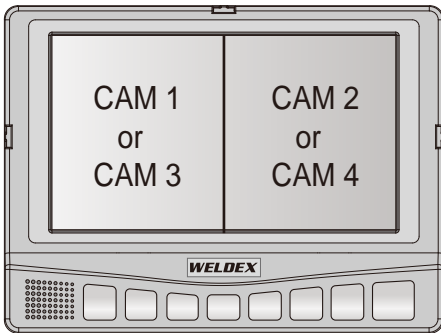   The following will appear on the screen.

OSD
Information >
Memory Recall

- • INFORMATION : NTSC / PAL auto detect
- • MEMORY RECALL: Monitor Set - up initialization
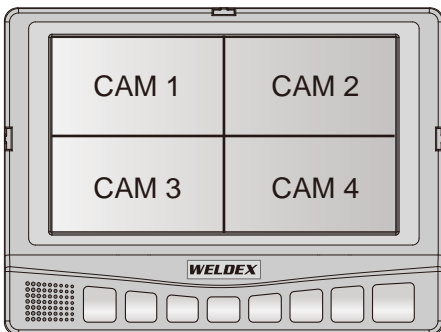
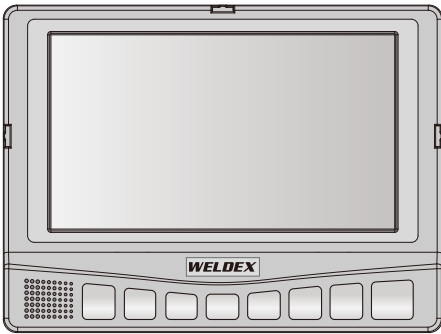E. VIEW MODE.1
Single : CAM 1 ~ CAM 4 , A/V

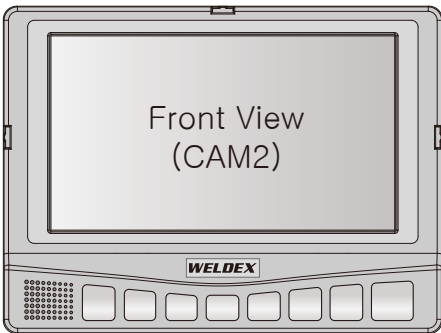Dual (Half) : CAM 1 / CAM 2 , CAM 3 / CAM 4

Quad : CAM 1 / CAM 2 / CAM 3 / CAM4

F. View Mode.2 (Tacho function : Option)
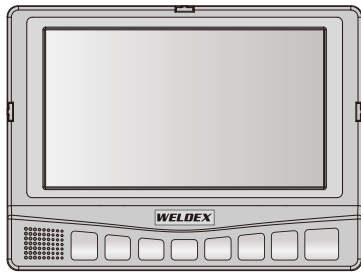 Use the CAM2 only

Off Mode

Power On :
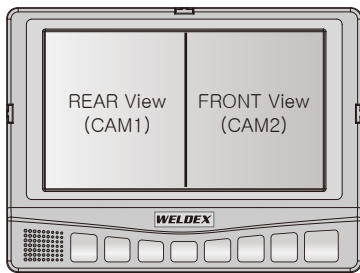Below 10Km / h : Display on (CAM2)
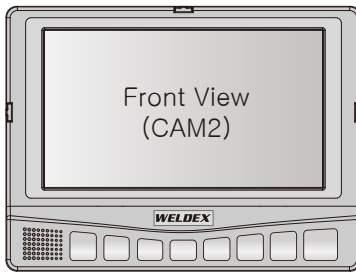
Above 10Km /h : Display Off

F-1. View Mode (Tacho function : Option)
   Use the CAM1,CAM2

Off Mode
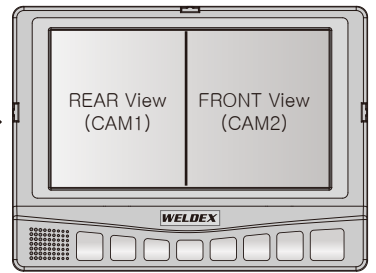
| REAR View (CAM1) | FRONT View (CAM2) |

Power On :
Split Display

Front View
(CAM2)

Start :
Below 10Km / h : CAM2 Display

| REAR View (CAM1) | FRONT View (CAM2) |

Above 10Km /h :
Split Display

REAR View
(CAM1)

Input from REAR TRIGGER

F-2. View Mode (Tacho function : Option)
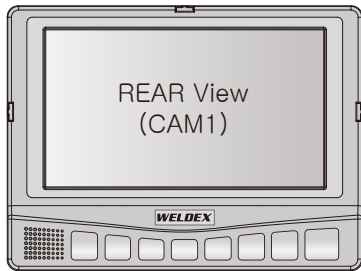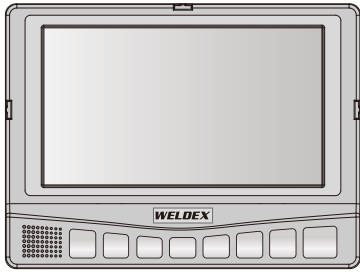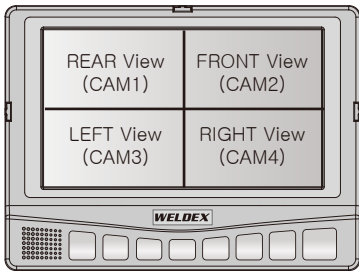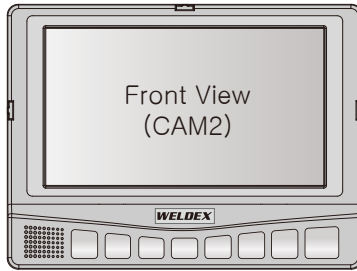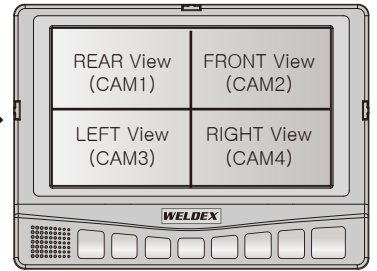   Use the CAM1,CAM2 (CAM3 ,CAM4)

Off Mode

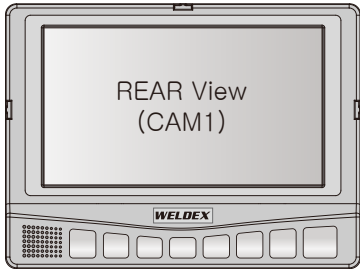Power On :
Quad Display

Start :
Below 10Km / h : CAM2 Display

Above 10Km /h :
Quad Display

Input from
LEFT,RIGHT,REAR TRIGGER

Troubleshooting

SCREEN	**Q: Screen is too bright.** A: Adjust BRIGHTNESS or CONTRAST. When pressing RESET button, it will go back to default setting. **Q: Screen color is red or close to green.** A: Adjust TINT in menu mode. Press preset to go back to default setting. **Q: Colors are dim.** A: Decrease the color by adjusting the button in menu mode.
VIDEO	**Q: Screen is not clear.** A: When the extension cable is too long diminishing of video may happen. Resolution might decrease due to protection of LCD window. **Q: Sync signal distracts and the screen is black and white.** A: Change the SYSTEM in menu.
AUDIO	**Q: Sound cannot be heard in Audio.** A: Check to see if it is in mute setting. Audio available only when vehicle is in reverse.

POWER	**Q: Power does not turn on.**
	A: Check if power is in DC12-32V.
	   Red: +Power, Black: GND
	   In order to set the power automatically set Auto-On in menu mode.

TRIGGER	**Q: When in trigger mode, Scale does not appear on.** A: Set the SCALE [ON] in menu mode.

Operation Error	**Q: Motorized camera does not operate.** A: Check if motorized camera is connected with REAR. Check if source switches are in REAR mode. **Q: Auto scan does not operate.** A: Scan does not operate when there is only one camera image. **Q: Auto scan mode is too fast.** A: Adjust S.TIME in appropriate level in menu mode. **Q: OSD disappears in the screen.** A: Set OSD [OFF] to [ON] in menu mode. **Q: The screen does not change when entering trigger.** A: Set INPUT [Auto] in menu mode. **Q: The screen blinks when entering trigger.** A: Increase TRIGGER TIME in menu mode.

Specifications

		7 Inch Series	8 Inch Series
LCD	TYPE	TFT-LCD COLOR	
	SCREEN SIZE	7 Inch	8 Inch
	BRIGHTNESS	500 cd/㎡	450 cd/㎡
	VISUAL FIELD (ANGLE)	Left 65˚/ Right 65˚/ Up 50˚/ Down 60˚	Left 70˚/ Right 70˚/ Up 50˚/ Down 70˚
	CONTRAST	500 : 1	500 : 1
	MTBF	10,000 Hours	20,000 Hours
INPUT SIGNAL FEATURE		COMPOSITE (75Ω)	
POWER CONSUMPTION		9.6W (Monitor only)	10.2W (Monitor only)
SIZE (Width x Depth x Height)		7.7 x 1.3 x 5.7 inch	8.5 x 1.3 x 6.3 inch
POWER SOURCE		DC +12V ~ +32V	
TEMPERATURE	WORKING	- 4 ˚F ~176˚F (-20℃~70℃)	
	STORAGE	-22˚F~186˚F (-30℃~80℃)	

Dimensions

[7 Inch Series]

[8 Inch Series]
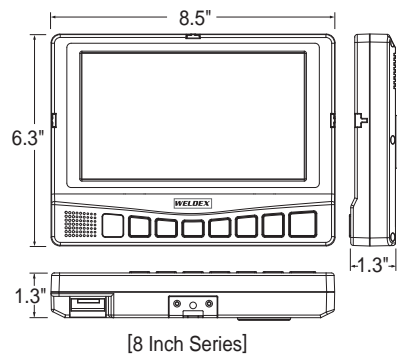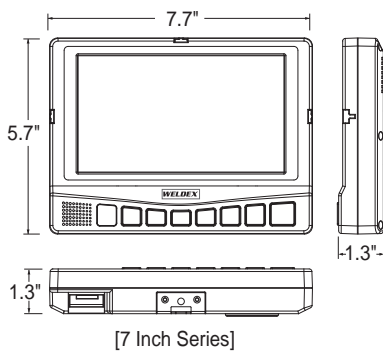
WELDEX CORPORATION

Original Equipment Manufacturer of CCD Cameras, DVR's & LCD Monitors

6751 KATELLA AVE CYPRESS, CA 90630, USA
Tel. (714) 761-2100, Fax: (714) 761-3811
www.weldex.com / oem@weldex.com

Made in Korea

Patent pending.
Design and specifications are subject to change without prior notice.